

PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES REPLACING THE EXISTING SOUTHBOUND HAZARD IDENTIFICATION BEACON (H.I.B.) AT THE INTERSECTION OF MD 2-4 (SOLOMONS ISLAND ROAD) AT STOAKLEY ROAD/ HOSPITAL ROAD IN CALVERT COUNTY. GEOMETRIC MODIFICATIONS APPROXIMATELY 1300 FEET NORTH OF THE INTERSECTION ARE PROPOSED TO PROVIDE A DECELERATION/ACCELERATION LANE FOR AN ADJACENT PROPERTY. THE ROADWAY WIDENING WILL IMPACT THE EXISTING H.I.B.. ALL EXISTING DETECTION AND TRAFFIC SIGNAL HEADS ALONG MD 2-4 WILL REMAIN. MD 2-4 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA SIX (6) PHASE, FULL-TRAFFIC ACTUATED MODE. THERE WILL CONTINUE TO BE AN EXCLUSIVE LEFT TURN PHASE FOR BOTH THE NORTH- AND SOUTHBOUND MOVEMENTS ON MD 2-4. THE MD 2-4 THROUGH MOVEMENTS WILL CONTINUE TO OPERATE CONCURRENTLY. THE STOAKLEY ROAD/ HOSPITAL ROAD MOVEMENTS WILL CONTINUE TO OPERATE IN A SIDE STREET SPLIT PHASE MODE.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED TRAFFIC SIGNAL CONTROLLER WILL REMAIN AT THE INTERSECTION OF MD 2-4 AT STOAKLEY ROAD/ HOSPITAL ROAD.

INSTALL A TYPE G CABINET AND 2-CIRCUIT FLASHER AT THE PROPOSED SOUTHBOUND HIB LOCATION.

PHONE DROP

THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410) 787-7635 TO ARRANGE FOR THE INSTALLATION OF THE PHONE DROP. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE AND PHONE NUMBER.

THE CONTACT PERSONS FOR DISTRICT #5 ARE AS FOLLOWS:

Ms. Kimberly Tran  
Assistant District Engineer - Traffic  
Phone: 410-841-1019

Mr. John Moys  
Assistant District Engineer - Utility  
Phone: 410-841-1039

Mr. Andre Futrell  
Assistant District Engineer - Maintenance  
Phone: 410-841-1033

Mr. Richard L. Daff Sr.  
Chief, Traffic Operations Division  
Phone: 410-787-7630

Mr. Edward Rodenhizer  
Chief, SHA Traffic Signal Shop  
Phone: 410-787-7652

The Power Company Representative is:  
Southern Maryland Electric Cooperative  
901 Dares Beach Road  
Prince Frederick, MD 20678-0037  
Phone: 410-535-4400 ext9411

EQUIPMENT LIST 'A'

APPROVED SHA EQUIPMENT TO BE PURCHASED BY THE DEVELOPER AND INSTALLED BY THE CONTRACTOR. ALL EQUIPMENT IN THIS LIST SHALL HAVE CATALOG CUTS SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION.

CAT_CODE	QUANTITY	DESCRIPTION
800000	1 EA	CABINET *G* TYPE POLE MOUNT WITH 2-CIRCUIT FLASHER
800000	16 SF	FURNISH AND INSTALL SHEET ALUMINUM SIGNS - MAST ARM/GROUND MOUNT
		1 EA - W3-3 (48"x48")
807202	1 EA	METERED SERVICE PEDESTAL
818041	1 EA	21 FOOT STEEL POLE WITH A SINGLE 60 FOOT MAST ARM
860284	2 EA	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION

EQUIPMENT LIST 'B'

EQUIPMENT TO BE PURCHASED BY THE DEVELOPER AND INSTALLED BY THE CONTRACTOR. ALL EQUIPMENT IN THIS LIST SHALL HAVE CATALOG CUTS SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION.

CAT_CODE	QUANTITY	DESCRIPTION
120500	1 LS	MAINTENANCE OF TRAFFIC
203030	1 CY	TEST PIT EXCAVATION
655105	12 SF	5 INCH CONCRETE SIDEWALK
800000	1 EA	AS BUILT FOR SHA ON CADD
800000	1 LS	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
801004	3 CY	CONCRETE FOR SIGNAL FOUNDATION
802501	20 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805125	55 LF	2 INCH SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
805135	25 LF	3 INCH SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
805140	25 LF	4 INCH SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
811001	1 EA	ELECTRICAL HANDHOLE
832017	150 LF	1 CONDUCTOR, NO. 4 AWG, TYPE USE, 600V
837001	1 EA	GROUND ROD - 3/4 INCH DIAMETER BY 10 FOOT LENGTH
861107	150 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

CAT\_CODE QUANTITY DESCRIPTION

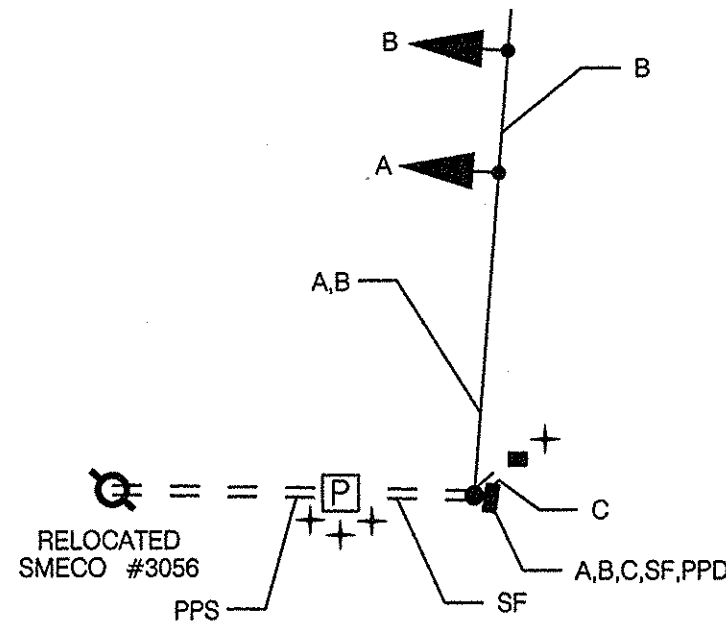
NONE - ALL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	
PHASE 1 + 5	→G	→G	→G	R	R	FL/Y	FL/Y	→G	R	→G	R	R	R	R	R	R	R	R	
PHASE 1 + 5 CHANGE	THE CONTROLLER MAY SKIP TO PHASE 1+6, PHASE 2+5 OR PHASE 2+6																		
PHASE 1 + 6	→G	→G	→G	G	G	FL/Y	FL/Y	→R	R	→R	R	R	R	R	R	R	R	R	
PHASE 1 CHANGE	→Y	→Y	→Y	G	G	FL/Y	FL/Y	→R	R	→R	R	R	R	R	R	R	R	R	
PHASE 2 + 5	→R	→R	→R	R	R	FL/Y	FL/Y	→G	G	→G	G	G	R	R	R	R	R	R	
PHASE 5 CHANGE	→R	→R	→R	R	R	FL/Y	FL/Y	→Y	G	→Y	G	G	R	R	R	R	R	R	
PHASE 2 + 6	→R	→R	→R	G	G	FL/Y	FL/Y	→R	G	→R	G	G	R	R	R	R	R	R	
PHASE 2 + 6 CHANGE	→R	→R	→R	Y	Y	FL/Y	FL/Y	→R	Y	→R	Y	Y	R	R	R	R	R	R	
PHASE 3	→R	→R	→R	R	R	FL/Y	FL/Y	→R	R	→R	R	R	G	G	G	R	R	R	
PHASE 3 CHANGE	→R	→R	→R	R	R	FL/Y	FL/Y	→R	R	→R	R	R	Y	Y	Y	R	R	R	
PHASE 4	→R	→R	→R	R	R	FL/Y	FL/Y	→R	R	→R	R	R	R	R	R	G	G	G	
PHASE 4 CHANGE	→R	→R	→R	R	R	FL/Y	FL/Y	→R	R	→R	R	R	R	R	R	Y	Y	Y	
FLASHING OPERATION	FL/RA	FL/RA	FL/RA	FL/Y	FL/Y	FL/Y	FL/Y	FL/RA	FL/Y	FL/RA	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	

WIRING DIAGRAM

- A ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
- C NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
- SF ELECTRICAL CABLE - 1 CONDUCTOR, NO. 4 AWG, TYPE USE, 600V
- + PROPOSED GROUND ROD - 3/4 INCH DIAMETER x 10 FOOT LENGTH
- P PROPOSED METERED SERVICE PEDESTAL
- PPS PROPOSED UNDERGROUND POWER SERVICE
- PPS ELECTRICAL CABLE - 1 CONDUCTOR, NO. 4 AWG, TYPE USE, 600V (3 RUNS WITH 3-30' COILS OF SLACK CABLE AT UTILITY POLE) (FINAL SERVICE CONNECTION TO BE MADE BY SMECO)



LENHART TRAFFIC CONSULTING  
TRAFFIC ENGINEERING & TRANSPORTATION PLANNING

331 Redwood Grove Court Millersville, Maryland 21108  
Tel: (410) 987-3888 Fax: (443) 782-2288



STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 2-4 (SOLOMONS ISLAND ROAD) AT  
STOAKLEY ROAD/HOSPITAL ROAD

GENERAL INFORMATION

SCALE NONE DATE AUGUST 2007 CONTRACT NO. BW996M82

DESIGNED BY MML COUNTY CALVERT  
DRAWN BY MML LOGMILE 04000220.20  
CHECKED BY MML T.I.M.S. NO. 1622  
F.A.P. NO. TOD NO.

DRAWING NO. TS-1260K-GI OF SHEET NO. 2 OF 2